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Fis. 2

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```
if(De-ringing filter) //De-ringing filter decision made by decision stage
nE=0;
newVal=0;
 for(ix=-1;ix <= 1;ix ++)
  for(iy=-1;iy<=1;iy++)
        if(Map(i+ix,j+iy)==0)
                if((ix!=0) \mid |(iy!=0))
                           newVal = newVal + I(i + ix, j + iy);
                          nE++;
if(nE==1)
        I(i, j) = ((newVal + I(i, j) + 1) >> 1);
else if(nE<4)</pre>
        for(ii=nE;ii<4;ii++)
                newVal = newVal + I(i, j);
        I(i, j) = ((newVal + 2) >> 2);
else if(nE<8)
         for(ii=nE;ii<8;ii++)
                 newVal = newVal + I(i, j);
        I(i, j) = ((rAvg+4) >> 3);
else if(nE==8)
         I(i, j) = ((newVal - I(i + 1, j + 1) + I(i, j) + 4) >> 3);
```

Fig. 4 Pseudo-code for de-ringing filter

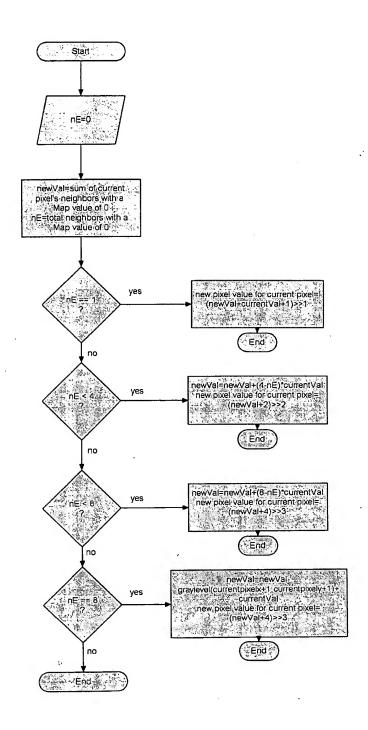


Fig. 5

START decoding Video + accepting 606 collecting data from 1st 1 roup of pixels defining matrix ut group by matrix! randomly selecting Pixel position selected pixel to calculate FV USING replacing test pixel with FVF5614 F19.6

accepting image pixels 5702

STAPET STOY

Performing math operation on 1st group of pixels

5706

[deciding if test pixel has ringing artifacts]

STOR

[performing math operation on 2nd group of pixels]

[generating FV] 5710

[replacing test pixel with FV] 5712

Fig. 7